

Addendum NO.	OPS 1	TITLE	Removal of Debris from around Potentially Energized Systems		
WORK PLAN	Debris Management Plan				
LOCATION	Appendix A				
FILE	Electrical Reconnaissance Assessment of Energized Systems.OPS1.doc				
LAST UPDATE	6/3/2013			PAGE	1 of 2

INTRODUCTION/PURPOSE

The purpose of this procedure is to safely remove debris that is covering or obstructing visual inspection of energized primary and secondary pedestals, identified by Empire, in the 6 sectors

BACKGROUND

From June 7 to date, Empire District Electric has commenced with marking and mapping of its primary and secondary pad mounted transformers and pedestals in the 6 Sectors debris will be removed. Field verification for primary and secondary transformers and pedestals has been provided through marking with a red "EDE" on the pavement and a red "E" on the transformer or pedestal; the latter at the discretion of Empire. If transformers or pedestals are covered with debris, the debris is also marked with red paint. While early Empire estimates that of those secondary pedestals, approximately 25% are covered to some degree with debris. This could vary from minor debris in the vicinity of the pedestal to debris completely covering the pedestal. Empire will also assess and identify pedestals that are damaged. Empire has agreed to provide an up-to-date map showing the locations of all of its primary and secondary pad mounted transformers and pedestals, and also those that have been identified for debris clearing prior to the start of work.

PROCEDURE

In order to reduce the risk of contact with energized primary and secondary pedestals, the following procedure will be implemented effective 9 June 2011:

1. A preparatory inspection will be conducted on June 9, 2011 at P&J Conference Room to address this operational plan and AHA. The Inspection will include Weston Sector Leads and Safety Staff, USACE Safety, COR, and QA staff, Empire Sector Electricians, and P&J prior to commencing work.
2. The Activity Hazard Analysis developed for this procedure will be accepted by the USACE Safety Officer prior to commencing work and will be followed at all times during work.
3. WESTON will provide maps, as Empire provides needed documentation, to field crews based upon Empire District Electric's GPS data gathered during their ground truth survey and provide these maps to the assessment crews.
4. Three crews will be deployed to perform work within the six work sectors to perform removal of debris from within 10 feet of the covered pedestals or visually obstructed pedestals identified by Empire. One crew will consist of:
 - a. 1 Empire Sector Electrician
 - b. 1 Weston Sector Lead
 - c. 2 laborers

In addition, at least one USACE QA representative will be present during the work activities. One skid steer loader will be available for use by any of the three crews if needed.

5. Crews will be equipped with appropriate PPE to include the following:
 - a. Insulated gloves rated for 15KV
 - b. Flame Retardant Clothing
 - c. Hard Hat
 - d. Safety Glasses
 - e. Safety Toe Boots
6. Crew will visit each of the primary and secondary pedestals in each sector that has been identified by Empire as covered with debris preventing visual assessment or in an electrically unsafe condition and perform the following:
 - a. The Empire Electrician for the Sector will verify that each pedestal is de-energized, or de-energize the pedestal.
 - b. Following verification of de-energizing the pedestal, laborers will clear any debris from a 10-foot radius surrounding each identified pedestal. The Weston Sector Lead will document the clearing of each pedestal with photographic and logbook documentation of conditions prior to and following clearing.
 - c. For any pedestals that are not cleared because Empire is unable to de-energize them, caution tape will be placed around the debris pile (until construction fencing can be installed) and it will be collected at a later time. These locations will be photo documented.
7. The Weston Sector Lead will complete required documentation of pedestal clearing (written, photographs) to be included in the Daily QC Report.

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LAST UPDATE	6/3/2013			PAGE	2 of 2

The above procedure is contingent on Empire District Electric providing the up-to-date location information for the pedestals and pad mount transformers to be cleared.

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

The Weston Sector Lead will be the lead QC representative to ensure all procedures are followed and implemented with a high degree of quality. The pedestal locations provided by Empire Electric will be plotted and field maps will be generated for field crews. Corrective recommendations will be provided in writing if systematic deficiencies are noted. The USACE representative will provide QA.

REFERENCES

AHA – Electrical Assessment Health and Safety Requirements
OPS 1- Electrical Documentation Form
Map template